

EXPERIMENT NO. 3 CAPACITOR TESTING

I. Objectives

1. Identify the common capacitor objects.
2. Check the condition of a capacitor with the use of an ohmmeter and a capacitance meter.

II. Equipment & Materials

10 Capacitors(assorted)
1 Analog multi-tester
1 Capacitance meter

III. Procedure

1. Examine the capacitance and identify the rating of each. With the use of the capacitance meter, get the actual capacitance of each capacitor. Enter the values obtained in table 1.

Table 1

Rated Value	Actual Value	Rated Value	Actual Value

Give the significance of the data obtained.

2. Set the ohmmeter range according to the rated values of the capacitors(refer to table 1). Connect the ohmmeter test probe to the terminal leads of the capacitor. Observe the deflection of the multi-tester's pointer. Disconnect the probes, then return it again to the previous connection. Observe the pointer deflection.

3. Check the other capacitors repeating steps 1 and 2. Based on the result obtained, are the capacitors good or defective? If the capacitors are defective, identify each defect if open, shorted, leaky. Enter observation in table 2.

Table 2

Capacitor	Defect	Capacitor	Defect

4. Explain with the aid of a diagram the test results when the capacitor's condition is:
- a. Good
 - b. Shorted
 - c. Open
 - d. Leaky

V. Observation

VI. Conclusion